Title: High-Speed Message Forwarding Lookups for Arbitrary Length Strings Using Pipelined Memories
Inventor: Pankaj GUPTA
Docket: 211.1001.01
Sheet: 1 of 2

Fig. 1

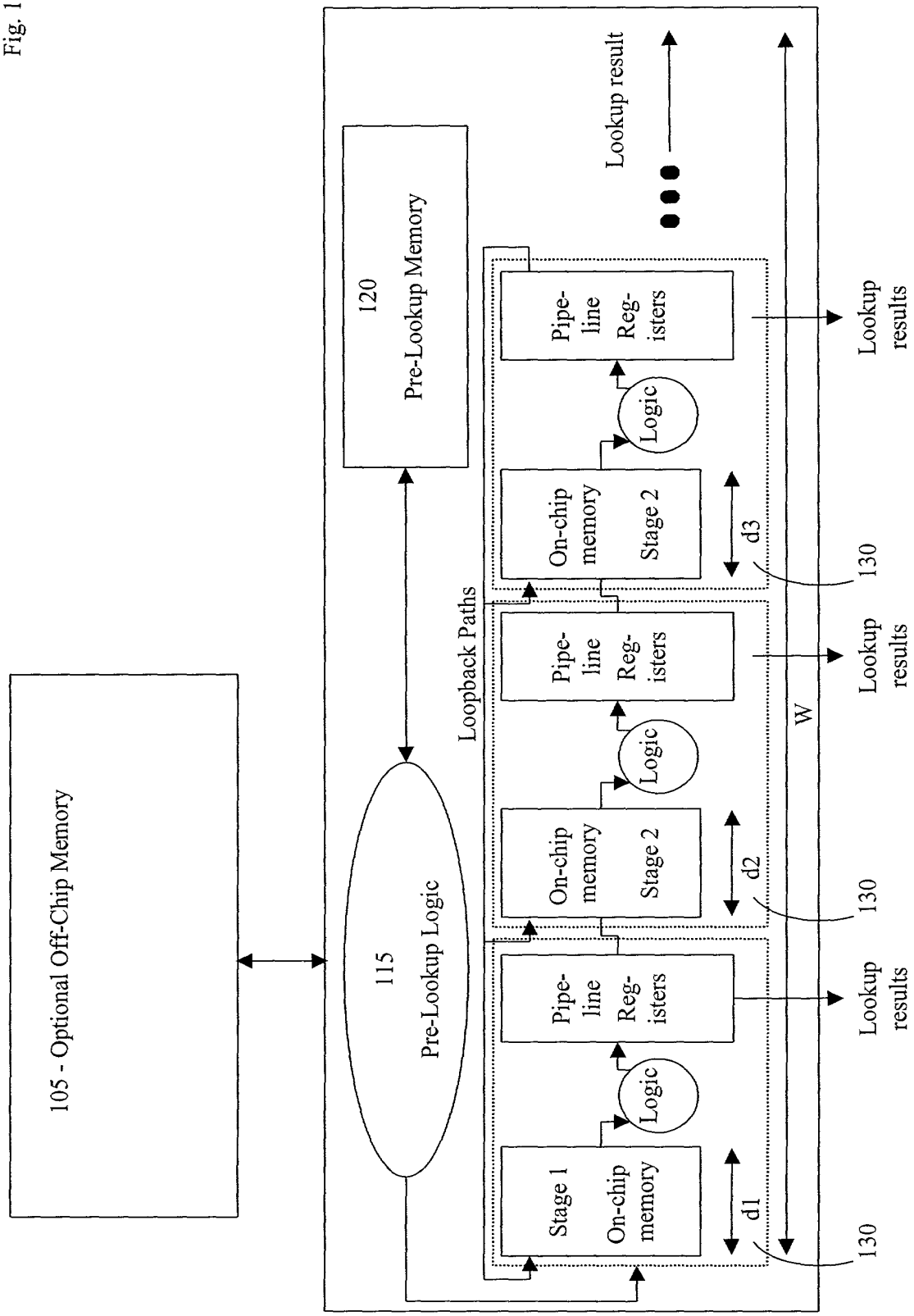
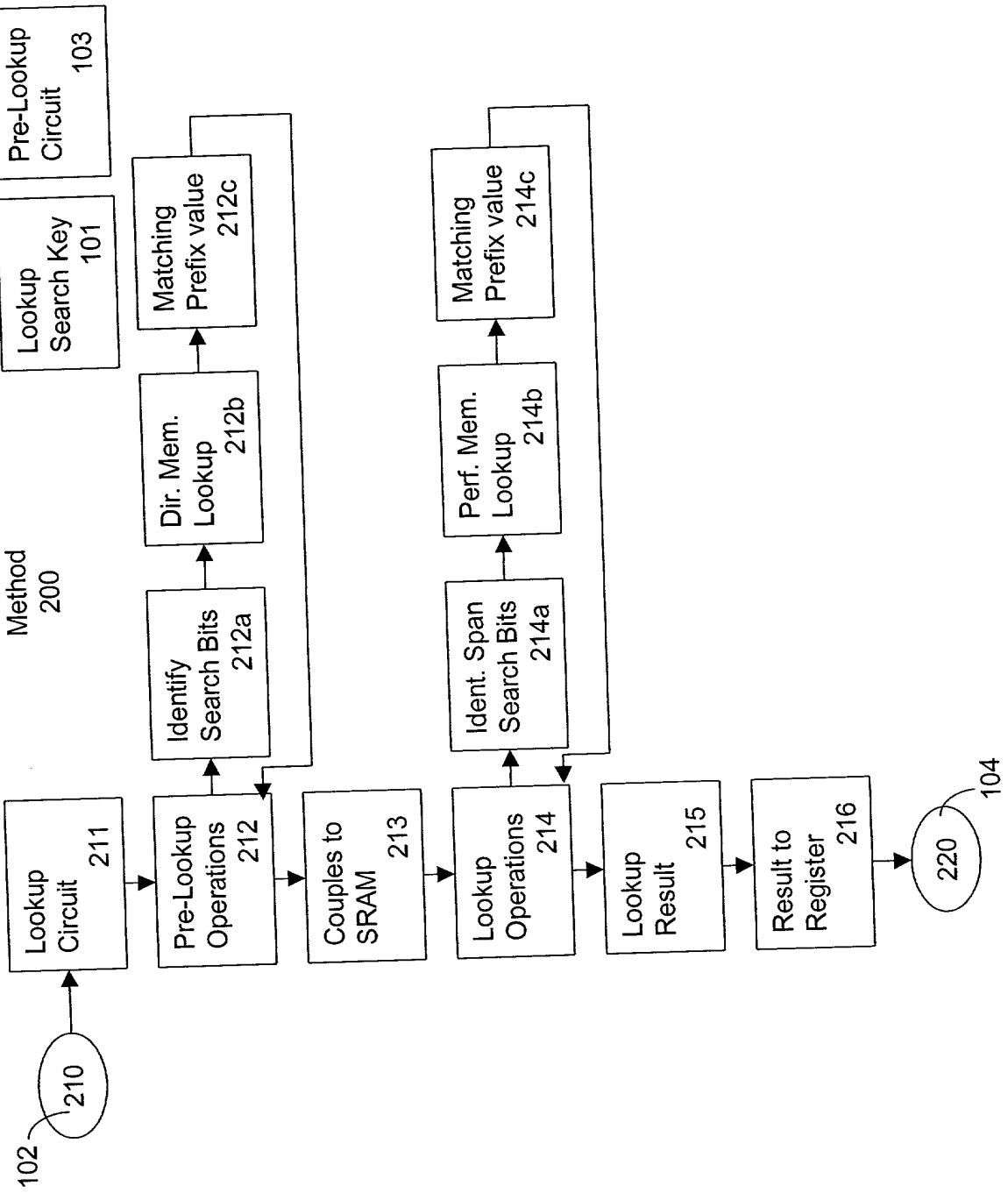


Fig. 2


Pre-Lookup Circuit 103
Lookup Search Key 101
Matching Prefix value 212c
Dir. Mem. Lookup 212b
Identify Search Bits 212a
Method 200
Perf. Mem. Lookup 214b
Matching Prefix value 214c
Ident. Span Search Bits 214a
102
210
Lookup Circuit 211
Pre-Lookup Operations 212
Couples to SRAM 213
Lookup Operations 214
Lookup Result 215
Result to Register 216
220
104